

ABSTRACT REPLACEMENT SHEET

A system for determining the position of a transponder transmitting a signal and moving along a route is disclosed. The route includes a measuring station with at least two measuring points having on each side of the route and along a line generally perpendicular to the route. The measuring station includes a first receiver that receives the signal at one measuring point and a second receiver that receives the signal at the other measuring point. Each receiver provides an output. A circuit measures the phase difference between the outputs of the first and second receivers, and the transponder location along the line between the measuring points is determined based on the measured phase difference.